CLAIMS

What is claimed is:

- A full-text search system comprising:

 a plug-in component that defines a relevant score algorithm; and
 a search component adapted to receive and utilize the plug-in component to query

 data and generate results.
- 2. The system of claim 1, wherein the plug-in component defines a full-text index schema.
- 3. The system of claim 2, wherein the plug-in component specifies how the schema is to be populated.
- 4. The system of claim 1, wherein the search component is tightly integrated into a database management system.
- 5. The system of claim 4, wherein the database management system query execution engine executes received full-text queries and database queries.
- 6. The system of claim 5, wherein the full-text queries are optimized by the database management system optimization component.
- 7. The system of claim 1, wherein the search component comprises an index system that creates an index in accordance with one or more consumer plug-in components and a query processing system that provides a mechanism for retrieving relevant documents utilizing the index.
- 8. The system of claim 7, wherein the index is a compressed nested data structure.

- 9. A full-text indexing system comprising:
 - a gatherer component to retrieve a document from a data store;
- a producer pipeline component that parses the structure and text of the retrieved document in accordance with a plurality of third party developer specified components; and

a consumer pipeline component that receives data from the producer pipeline component and persists data to an inverted index.

- 10. The system of claim 9, wherein the gather component and the consumer pipeline component reside within a database management system.
- 11. The system of claim 10, wherein the producer pipeline component is executed as an external daemon process managed by an external host controller component residing within the database management system.
- 12. The system of claim 9, wherein the producer pipeline component comprises a noise component to remove keywords that are diminutive in value as search criteria.
- 13. The system of claim 9, wherein the gatherer component retrieves documents from external databases.
- 14. A full text query system tightly integrated with a database management system comprising:
 - a parser component that tokenizes received queries;
- an execution plan generation system that generates an execution plan based on tokens received from the parser component and a ranking algorithm provided by a third party developer *via* a ranking plug-in component;

an execution engine component that utilizes the execution plan to search an index and produce query results in order as specified by the ranking algorithm.

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- 15. The system of claim 14, further comprising a user interface component to receive queries from users.
- 16. The system of claim 14, wherein execution plan generator component produces a query tree, appends scoring functions to leaves, and transforms the query tree into a data base query expression.
- 17. The system of claim 16, further comprising an optimizer component that optimizes the database query structure based on information concerning the index to be searched.
- 18. The system of claim 17, further comprising an expander component that modifies keywords provided in the query structure.
- 19. The system of claim 18, wherein the expander component is executed as a separate daemon process from the execution engine.
- 20. The system of claim 19, wherein the expander component includes at least one of a stemmer component, a normalizer component, an inflection component, a thesaurus component, a custom expansion component, a homonym component, and a fuzzy component.
- 21. The system of claim 20, where the expander components and associated functionality are specified by a third party developer.
- 22. A method of employing a customized full-text query comprising:
 retrieving a full-text indexing schema and ranking algorithm from a plug-in
 component provided by a third party developer; and
 populating an index in accordance with the provided indexing schema.

23. The method of claim 22, further comprising: receiving a query; generating results utilizing the index; and displaying the results by rank in accordance with the ranking algorithm, wherein the results are displayed in order from most to least relevant.

- 24. The method of claim 23, wherein the results are generated by a database management system query processor.
- 25. A computer readable medium having stored thereon computer executable instructions for carrying out the method of claim 22.
- 26. A customized indexing methodology comprising: retrieving a document from a data source; removing document formatting data and emitting text chunks; parsing the text chucks into keywords; and persisting the keywords to an index, the index schema being defined by a third party developer.
- 27. The method of claim 26, further comprising normalizing keywords.
- 28. The method of claim 26, further comprising removing keywords of diminutive value as search criteria.
- 29. The method of claim 26, further comprising identifying the language of each text chunk and generating an id indicative thereof.
- 30. The method of claim 26, further comprising determining and noting the position of each keyword within a respective document.

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- 31. A computer readable medium having stored thereon computer executable instructions for carrying out the method of claim 26.
- 32. A full text search methodology comprising:
 receiving a search request; and
 generating a query expression in response to the search request which includes a
 third party developer specified ranking algorithm for determining the relevance of result
 documents.
- 33. The method of claim 32, further comprising utilizing a database management system to optimize the query expression prior to execution.
- 34. The method of claim 33, further comprising employing a database execution engine to execute full text queries.
- 35. The method of claim 32, further comprising modifying the query expression to include, remove, add, or modify keyword terms.
- 36. The method of claim 35, wherein the query expression is modified by one or more components specified by a third party developer.
- 37. The method of claim 36, wherein the developer specified components are executed as separate daemon processes managed by an external host controller component from within a database management system.
- 38. The method of claim 35, wherein the query expression is modified once at compile time and again at runtime.
- 39. The method of claim 32, further comprising displaying search results in relevant order to a user.

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40. A computer readable medium having stored thereon computer executable instructions for carrying out the method of claim 32.